2011 OHIO MECHANICAL CODE (IMC 2009)
2011 OHIO PLUMBING CODE (IPC 2008)
2011 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
2011 OHIO FIRE CODE (2009 IFC)
ASHRAE 90.1-07-2009 (COMMERCIAL)
2011 EICC (RESIDENTIAL)
2011 OHIO FUEL GAS CODE (IFGC 2009)

2011 OHIO BUILDING CODE (IBC 2009)
TIMEIA-222 - REVISION G (INCLLIDES ADDENDUM NO. 1)
TIMEIA-222 - REVISION G (INCLLIDES ADDENDUM NO. 1)

GAS CODE

CODE BLOCK

PRINT PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY

REMOVE (3) EXISTING PANEL ANTENNAS (1 PER SECTOR)
INSTALL (3) NEW PANEL ANTENNAS (1 PER SECTOR)
REMOVE (2) EQUIPMENT CABINET
INSTALL (1) NEW MANES CABINET
INSTALL (1) NEW BBU CABINET
REMOVE ALL EXISTING SPRINT ANTENNA COAXIAL CABLES
INSTALL (3) NEW HYBRIFLEX FIBER OPTIC CABLES USING EXISTING COAX ROUTE (1 PER
INSTALL (3) NEW HYBRIFLEX FIBER OPTIC CABLES USING EXISTING COAX ROUTE (1 PER

ACCESSIBILITY REQUIREMENTS: "ACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION, HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.



Call 800-925-0988 (Toll Free) Oil & Gas Producers Utility Protection Service



NETWORK VISION MMBS LAUNCH

THIS IS AN EXISTING SPRINT WIRELESS TELECOMMUNICATION FACILITY NETWORK VISION EQUIPN

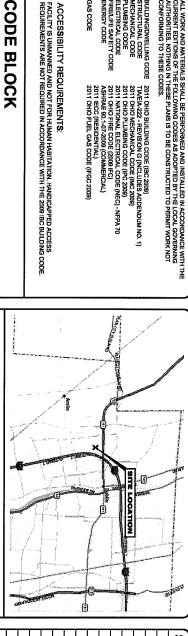
DUBLIN SOUTH AEP CB03XC025

5777 SHIER RINGS ROAD COLUMBUS, OHIO 43002 FRANKLIN COUNTY

LATITUDE: 40.09454444° / 40° 5' 40.359' (NAD 83) (GPS READING) LONGITUDE: -83.14281667° / 83° 8' 34.1428' (NAD 83) (GPS READING)

180'-SELF SUPPORT TOWER COLUMBUS MARKET

DESCRIPTION



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AREA MAP	
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VICINITY MAP APPLICANT: GENERAL DYNAMICS ON BEH 921 EASTWIND DR., SUITE 112 WESTERVILLE, DH 43081 CONTACT: JOHN WERNER PHONE # (248) 410-4077 PROPERTY INFORMAT PROPERTY OWNER: ADDRESS:

FROM	
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OFFICE	
(921	
EASTWIND	
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SUITE	
112,	
FROM THE GD OFFICE (921 EASTWIND DR., SUITE 112, WESTERVILLE, OH 43081)	
오	
43081):	

CONSTRUCTION MANAGER

TE ACQUISITION MANAGER

APPROVAL

SIGNATURE

DATE

PLANNING CONSULTANT

LE MANAGER

RF MANAGER

RF ENGINEER

PROPERTY OWNER

PROJECT DESCRIPTION

PROJE	
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MAR)	
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PROJECT TEAM

LEASE AREA: 10' X 15' (150 SF)

PARCEL NUMBER (S) 273-001532-00

SIGNATURE BLOCK

DRIVING DIRECTIONS

SPRINT PRESENTATIVE

AV MANAGER

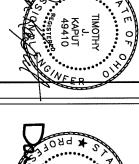
					E-6	E 4	E-3	E-2	판	RF-1	A-6	A-5	A.4	A-3	A-2	A-1	N-2	
	Westernian Control of the Control of				GROUNDING DETAILS	GROUNDING DETAILS	GROUNDING & ROUTING PLANS	ELECTRICAL DETAILS	ONE-LINE DIAGRAM & POWER PANEL SCHEDULE	ANTENNA AND CABLE COLOR CODING DETAILS	EQUIPMENT DETAILS	EQUIPMENT DETAILS (OUTDOOR SPECIFICATIONS)	EQUIPMENT DETAILS	ELEVATION & ANTENNA PLANS (ALL SECTORS)	COMPOUND & EQUIPMENT PLANS	OVERALL SITE PLAN	GENERAL NOTES	

SITE ACQ. PROJECT MANAGER:
GENERAL DYNAMICS
821 EASTWIND BOR, SUITE 112
WESTERVILLE, DH 43081
CONTACT: ANGELA MACK
PHONE # (503) 312-8648
EMAIL: ANGELAMACK@GDTI.COM

IEET		
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INDEX		

	PROPERTY INFORMATION: PROPERTY OWNER: COLUMBUS & SOUTHERN OHID ELECTRIC CO. ADDRESS: CONTACT: PHONE * COLUMBUS, OHIO 43216 CONTACT: SIE D: CONTACT:	APPLICANT: GENERAL DYNAMICS ON BEHALF OF SPRINT 921 ENSTWIND DR., SUITE 112 WESTERVILLE, 014 50081 CONTACT: JOHN WERNER PHONE #. (249) 410-4077
RF ENGINEER: SAMSUNG TELECOMMMUNICATIONS OF AMER SAMSUNG TELECOMMUNICATIONS OF AMER 27007 HILLS TECH CT FARMINGTON HILLS, MI 48331 CONTACT: JOE WERTHER PHONE# (469) 247-771 EMAIL: JOE WERTHER@STA.SAMSUNG.CC	TELCO COMPANY: AT&T OHIO 5043 TUTTLE CROSSING BOULEVARD #130 DUBLIN, OHIO 43016 CONTACT: CUSTOMER SERVICE PHONE #: (814) 783-0161 EMAIL: UNKNOWN	ELECTRICAL COMPANY: COLUMBUS SOUTHERN POWER 1 RIVERSIDE PLAZE ODLIMBUS, OHIO 42216 CONTACT: CLISTOMER SERVICE PHONE# (914) 716-1000 EMAIL: UNIVATOWN

BUILDING DEPARTMENT: STATE OF OHIO SEGS TUSSING ROAD REYNOLDSURGR OHIO 43068 CONTACT: WOOD'N RELSON PHONE# (614)544-2822 EMAIL: BDCCPLANS@COM.STATE.OH.US	CONSTRUCTION MANAGER: GENERAL DYNAMICS 921 EASTWAND DR., SUITE 112 WESTERVILLE, DH 43981 CONTACT: DAN ENTLER PHONE # (28) 207-3838 EMAIL: DANLENTLER@GDIT.COM
AS KAPUT LA A9410 S. C.	TIMOTHY J



NETWORK VISION MMBS LAUNCH
DUBLIN SOUTH AEP CB03XC025

KSS 5777 SHIER RINGS ROAD COLUMBUS, OHIO 43002 FRANKLIN COUNTY 2012778.2759.01 MWM 11/07/12

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WIRELESS SERVICES

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\triangleright	02/06/13	ISSUED FOR CONSTRUCTION	C)
\triangleright	11/07/12	ISSUED FOR 80% REVIEW	KSS
REV.	DATE	REVISION DESCRIPTION	DRAWN BY

GPD GROUP. Gaus, Pris. Schomer, Burns & Darkmer, Exc. 520 South Main Street, Suite 2531 Akron, Ohio 44311 330-572-2100 Fax 330-572-2101	
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STRUCTURAL ENGINEER:
GPD GROUP
520 SOUTH MAIN STEET, SUITE 2531
AKRON, CH 44311
CONTACT: JASON CHERONIS
PHONE# (330) 572-2137
EMAIL: JCHERONIS@GPDGROUP.COM

ENGINEER:
GPD GRUD
8276 ALLISON POINTE TRAIL
INDIANAPOLIS, IN 46250
CONTACT: ED BLOCK- PROJECT MANAGER
PHONE # (30) 5722100
EMAIL: EBLOCK@GPDGROUP.COM

GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING CODE, THE LATEST EDITION AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- CONTRACTOR SHALL CONSTRUCT SITE IN ACCORDANCE WITH THESE DRAWNOS AND SERINT INTEGRATED CONSTRUCTION STANDARDS FOR WHELEES SITES (LATEST REVISION). THE SPECIFICATION IS THE RULING DOCUMENT AND ANY DISCREPANCIES BETWEEN THE SPECIFICATION AND THESE DRAWNOS SHOULD BE ENOUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 'n CONTRACTOR SHALL YSIT THE JOB SITE AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE HEAFT WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF, FIELD CONDITIONS AND DIMENSIONS AND CONFINAING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE RIGHEET PRIOR TO THE COMMENCEMENT OF WORK, NO COMPENSATION WILL BE AWARDED BASED ON CLAIM OF LACK OF KNOWLEDGE OF FIELD CONFIDENCE.
- Ç PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIACRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. THE WORK STALL INCLUDE FURNISHING MATERIALS, EDUIPMENT AND APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- DIMENSIONS SHOWN ARE TO THISH SURFACES UNLESS OTHERWISE NOTED, SPACING BETWEEN EQUIPMENT IS REQUIRED CLERAPAIGE. THEREFORE IT IS CRITICAL TO RELD VERIFY DIMENSIONS, SHOULD THERE BE MY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE WORK.
- DETAILS ARE INTENDED TO SHOW DESIGN INTENT, MODIFICATIONS MAY BE REQUIRED TO SUIT LOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BETORE STARTING WORK ON ANY TIEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND BUILDING OCCULPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
- CONTRACTOR SHALL CORDINATE HIS WORK WITH THE SUPERINTENDENT OF BUILDINGS & GROUNDS AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
- NSTALL ALL EQUIPMENT AND MATERALS IN ACCORDANCE WITH MANUFACTURERS RECOMMEDIATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING ETC. AND IMMEDIATELY REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR COMDUIT RINS, PIPE RINS, ETC., MUST BE CLEARLY UNDERSTOOD THAT RENFORMOR STEEL SHALL NOT BE CRILLED INTO, CUT OR DANAGED UNDER MY CIRCUMSTANCES (UNLESS NOTED OTHERWISE), LOCATIONS OF RENFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT.
- seal penetrations through fire rated areas with U.L. Listed and fire code approved materials. repair all existing wall surfaces damaged during construction such that they match and blend in with adjacent surfaces.
- KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH, EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL REMOVED, LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
- MINIMUM BEND RADIUS OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION SHALL BE IN CONFIGURANCE WITH JURISDICTIONAL OR STATE AND LOCAL MIDDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH LOCAL REGULATORY AUTHORITIES.
- LIGHT SHADED LINES AND NOTES REPRESENT WORK PREVIOUSLY DONE, DARK SHADED LINES AND NOTES REPRESENT THE SCOPE OF WORK FOR THIS PROJECT, CONTRACTOR SHALL YERIPY IF EXISTING CONSTRUCTION IS COMPLETE, CONTRACTOR SHALL NOTIFY ENGINEER OF ANY EXISTING CONDITIONS THAT DEVAITE FROM THE DRAWNOS PRIOR TO BEGINNING CONSTRUCTION.
- LECTRICAL NOTES CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS AND/OR WRING CERTIFICATES REQUIRED FOR THE ELECTRICAL SERVICE UPGRADE. IN ADDITION, CONTRACTOR SHALL PROVIDE ALL NECESSARY COGRADINATION AND SCHEDULING WITH THE SERVING ELECTRICAL UTILITY AND LOCAL INSPECTION AUTHORITIES.
- ELECTRICAL CONTRACTOR SHALL WIST THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION, AND MAKE PROVISIONS AS TO THE COST THEREOF, ALL EXISTING CONDITIONS OF ELECTRICAL EQUIP, LIGHT FAVINERS, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERRIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID, FAILINE TO COMPLY WITH THIS PARAGRAPH WILL UN OWAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.

ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE W/DRAWNOS AND ANY/ALL APPLICABLE SPECIFICATIONS, IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER' AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED INH THAT FORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER & TELEPHONE COMPANIES HAVING JURISDICTION AND SHALL INCLUDED BUT NOT BE LIMITED TO:
- III. UNDERWRITERS LABORATORIES
 NEC NATIONAL ELECTRICAL CODE
 NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
 OSIA OCCUPATIONAL SAFETY AND HEALTH ACT
 IBC INTERNATIONAL BUILDING CODE
 NFEN ATTONAL FIRE CODES

- DO NOT SCALE ELECTRICAL DRAWNOS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH "CONSTRUCTION MANAGER" ANY SIZES AND AND LOCATIONS WHEN NEEDED.
- EXISTING SERVICES: CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT OF THE GDIT.
- CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL
- CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, COMDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' COMPRINATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- MINIMUM WIRE SIZE SHALL BE #12 AWG, NOT INCLUDING CONTROL WIRING, UNLESS NOTED OTHERWISE. ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- ö OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

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- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DEFAIL OF THE CONSTRUCTION, CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLITE BECTRUCAL SYSTEM PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING GROER,
- 13 ELECTRICAL SYSTEM SHALL BE AS COMPLETELY AND EFFECTIVELY GROUNDED, AS REQUIRED BY SPECIFICATION, SET FORTH BY SPRINT.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANILER HANNER, THE COMPLETED SYSTEM SHALL BE FULL OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER.
- CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS OR A PERIOD OF NOT LESS THAN TWO YEARS FROM DATE OF CUSTOMER'S ACCEPTANCE.

- THE COMPRECIPION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OF THE REPLACE OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN WITHIN 48 HOURS.
- ġ, PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR OUTLETS AS INDICATED.

ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.

- DITCHING AND BACK FILL. CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO NOTES AND REQUIREMENTS, EXCAVATION, AND BACKFILLING.
- 20. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG MFORMATION OF ANY/ALL LIGHTING FIXTURES, SMITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES, ALL ELECTRICAL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- DISCONNECT SMTCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-DODE COMPOUND SICH AS THO-DODE A SPECIAL OFFICIAL COLLEGE AND DEARBORNE OFHINGAL OC COAT ALL WREE SURFACES BETORE CONNECTING, EXPOSED COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED — NO SUBSTITUTIONS.
- . RACEMAYS. CONDUIT SHALL BE SCHEDULE 40 PVC MEETING OR EXCEEDING NEMA TC2 1990.
 CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPT CONDUITS AND PROVIDE TWO
 SEPARATE PULL STRINGS 200 LBS TEST POLYETHYEME CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM
 OF 2 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEL. ALL FITTINGS
 SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR
 'GOLD CALV'.
- SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- COMDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER WITH TYPE THWN INSILATION, 600 YOLT, COLOR CORDED, USE SOLD CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 8 AWG, USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 8 AWG.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED THIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AND LARGER.
- SERVICE: 240/120V, SINGLE PHASE, 3 WIRE CONNECTIONS AVAILABLE FROM UTILITY COMPANY, OWNER OR OWNERS AGENT WILL APPLY FOR POWER.
- TELEPHONE SERVICE: CONTRACTOR SHALL PROVIDE EMPTY CONDUITS WITH MULE TAPE AS INDICATED DRAWINGS.
- 32. ELECTRICAL AND TELCO RACEWAYS TO BE BURIED A MINIMUM OF 2' DEPTH.
- 33 CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" DIRECTLY ABOVE LECTRICAL AND TELCO SERVICE CONDUITS. CAUTIONS TAPE TO R ELECTRIC" OR "BURIED TELECOM". " BELOW GROUND AND READ "CAUTION BURIED
- 34. ALL BOLTS SHALL BE STAINLESS STEEL.

ANTENNA & COAX NOTES

- VERIFY EACH COAMAL CABLE LENGTH, DIAMETER, ROUTING, COLOR CODING AND ALL APPURTENANCES WITH GDIT.
- THE MAXIMUM COAXAL CABLE LENGTH AND CORRESPONDING COAXAL CABLE DIAMETER IS SHOWN ON SHEET A-4, THIS CABLE LENGTH IS TO BE USED FOR FABRICATION OR CONSTRUCTION, ACTUAL ANTENNA CABLE LENGTH(S) MUST BE VERIFIED, COAXIAL CABLE SHALL BE PROVIDED BY GOIT.
- ALL COAX CABLES SHALL UTILIZE GROUND KITS, GROUNDED AS FOLLOWS:
- A. NEAR ANTENNA RAD CENTER ELEVATION,
 B. MIDDLE OF TOWER (MID-HEIGH OF ANTENNA), IF CABLE RUN IS OVER
 C. BOTTOM OF TOWER,
 D. AT MASTER GROUND BAR 3"-0" FROM MMBS-BBU CABINET

- WRITTEN PERMISSION
- all cables shall be color coded as shown on sheet $\ensuremath{\mathsf{RF}}-1$ and in accordance. With sprint specifications.

ALL TOP JUMPERS SHALL BE LENGTHS AS SHOWN AND INSTALLED BY CONTRACTOR.

- BANDING SHALL BE IN ACCORDANCE WITH SHEET A-4, RF-1 AND AS FOLLOWS
- A. MAIN LINE COLOR BANDS SHALL BE 2" WIDE. MAINTAIN 1" SPACING BETWEEN COLORS. B. FREQUENCY COLOR BANDS SHALL BE 2" WIDE WITH NO SPACE BETWEEN COLORS. C. JUMPER COLOR BANDS SHALL BE 1" WIDE WITH 1" SPACE. D. START COLOR BANDS 2" BEYOND WEATHER-ROOFING. E. START SELECTOR COLOR NEXT TO END CONNECTORS.
- FINAL COAXIAL ANTENNA CABLE SIZES SHALL BE DETERMINED BY SAMSUNG RESCHEDULE SHEET A-4. BASED ON FINAL CABLE RUN LENGTHS DETERMINED BY
- SEE CONSTRUCTION MANAGER FOR ANTENNA SUPPORT ASSEMBLY TYPE. ENGINEER. SEE ANTENNA GD.
- ALL COAMAL CABLE WIL BE SECURED TO THE DESIGNED SUPPORT STRUCTUR 3 OR THE CABLE MANUFACTURES SPECIFICATIONS WHICHEVER IS LESS, WITH I COAMAL CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL REPORT. RE AT DISTANCES NOT TO EXCEED HARDWARE SPECIFIED IN THE
- 10. PROVIDE AT LEAST 6" OF SLACK IN THE MAIN COAXIAL CABLES AT THE ANTENNA MOUNTING ELEVATION TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.

ANTENNA & HYBRID CABLE NOTES

- The Hybrid cable and diameter length is shown on a-4. Excess cable lengths to be dressed in a manner approved by goit. Cables cannot be cut to fit. VERIFY EACH HYBRID CABLE LENGTH, ROUTING, DIAMETER, COLOR CODING AND ALL APPURTENANCES WITH GDIT.
- HYBRID CABLE INTERNAL GROUND WIRE TO BE GROUNDED AT TOP AND BOTTOM PER SAMUSUNG'S (SPRINT) SPECIFICATIONS.
- EXCESS TOP 15' HYBRID CABLE FIBER JUMPERS TO BE DRESSED IN A MANNER APPROVED BY GDIT, CANNOT BE COILED, MUST BE SECURED TO TOWER MOUNTS..
- ALL MAIN CABLES SHALL BE COLOR CODED AS SHOWN ON SHEET RF-1 & IN SPECIFICATIONS. ACCORDANCE WITH SPRINT
- BANDING SHALL BE IN ACCORDANCE WITH SHEET A-4, RF-1,
 A. MAN LINE COLOR BANDS SHALL BE 2" WIDE. MANTAIN 1" SPACE,
 B. JUNETR COLOR BANDS SHALL BE 1" WIDE WITH 1" SPACE,
 C. START COLOR BANDS 2" BEFORE MAIN CABLE END. Ĭ.
- final hybrid cable sizes shall be determined by Samsung RF engineer, see hybrid cable schedule sheet RF-1, based on final cable run lengths determined by goit.
- ALL HYARID CABLE MIL BE SECURED TO THE DESIGNED SUPPORT STRUCTURES SPECIFI 3" HORIZONTALLY OR 4" VERTICALLY OR THE CABLE MANUFACTURER'S SPECIFI MITH HARDWARE SPECIFIED IN THE HYBRIO CABLE ROUTING DETAILS OF THE : E AT DISTANCES NOT TO EXCEED ICATIONS WHICHEVER IS LESS, SUPPLIED STRUCTURAL SUPPORT.

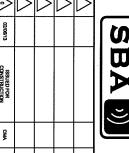
SITE WORK NOTES

- DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- DO NOT SCALE BUILDING DIMENSIONS FROM DRAWING.
- SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-BUILT DRAWNGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.
- ALL EXSTING UTILITIES, FACILITIES, CONDITIONS AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ENGINEER AND OWNER ASSUME NOT RESPONSIBILITY WHATSDEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE NEWANTION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING OF MALLIFIES AND FACILITIES PROR TO STAFT OF CONSTRUCTION, CONTRACTOR SHALL ALSO DETAIN FROM EXACT UTILITIES AND FACILITIES PROR TO STAFT OF CONSTRUCTION. OF CONTRACTOR SHALL ALSO DETAIN FROM EXACT UTILITIES AND FACILITIES PROR TO STAFT OF CONSTRUCTION.
- CONTRACTOR SHALL YERRY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETAING OF PLANS SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/PCINICIES FOR RESOLUTION AND INSTRUCTION, AND OF PLANS WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/PSINICIEST, PALLINET TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- CONTRACTOR SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- grading of the site work area is to be smooth and continuous in slope and is to feather into existing grades at the grading limits.
- ALL TELPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 95% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
- NEW GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
- all fill shall be placed in uniform lifts, the lifts thickness should not exceed that which can be properly compacted throughout its entire depth with the equipment available.
- ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 10 HORIZONTAL TO 1 VERTICAL SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL CLEAN ENTIRE SITE DAILY AFTER CONSTRUCTION SUCH THAT NO PAPERS, THRASH, WEEDS BRUSH OR ANY OTHER DEPOSITS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DISPOSED OF OFF-SITE BY THE GENERAL CONTRACTOR.
- 15. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
- 16. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTO TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDIC'S R WITH LOCAL UTILITY COMPANY,



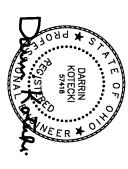


GENERAL DYNAMICS
WIRELESS SERVICES



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PROJECT INFORMATION:

DUBLIN SOUTH AEP CB03XC025

5777 SHIER RINGS ROAD COLUMBUS, OHIO 43002 FRANKLIN COUNTY

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SHEET NUMBER:	10
REV.:	

- ALL FINAL GRADED SLOPES SHALL BE A MAXIMUM OF 3 HORIZONTAL TO 1 VERTICAL
- ALL EXCANATIONS PREPARED FOR PLACEMENT OF CONCRETE SHALL BE OF UNDISTURBED SOILS, SUBSTANDALLY HORIZONTAL AND FREE FROM ANY LOOSE, UNSUTTABLE MATERIAL OR FROZEN SOILS, AND WITHOUT THE PRESENCE OF POUNDING WATER, DEMATERING FOR EXCESS GROUND WATER SHALL BE PROVIDED WHEN REQUIRED, COMPACTION OF SOILS UNDER CONCRETE PAD FOUNDATIONS SHALL NOT BE LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR THE SOIL IN ACCORDANCE WITH ASTM D1557.
- CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC OR UNSUITABLE MATERIAL IF INADEQUATE BEARNIC CAPACITY IS REACHED AT THE DESINGED EXCOANION DEPTH, THE UNSUITSACTORY SOIL SHALL BE EXCANATED TO ITS PILL DEPTH AND ETHER BE REPLACED WITH MECHANICALLY COMPACTED GRANLLAR MATERIAL OR THE EXCANATION SHALL BE FILLED WITH CONCRETE OF THE SAME TYPE SPECIFED FOR THE FOUNDATION, CRISTED TO STALLED WITH CONCRETE OF THE SAME TYPE SPECIFED FOR THE FOUNDATION, CRISTED MAY BE USED TO STRAILLZE THE BOTTOM OF THE EXCANATION, ANY STONE SUB BASE MATERIAL, IF USED, SHALL NOT SUBSTITUTE FOR REQUIRED THICKNESS OF CONCRETE.
- ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH PRIOR TO BACK FILLING, BACK FILL SHALL CONSSIT OF APPROVED MATERIALS SUCH AS EARTH, LOAM SAND'T CLAY, SAND AND GRAVEL, OR SOFT SHALE, FREE FROM CLOOS OR LARGE STONES OVER 2 1/2" MAX DIMENSIONS, ALL BACK FILL SHALL BE PLACED IN COMPACTED LAYERS.
- ALL MATERIALS AND FOUNDATION BACK FILL SHALL BE PLACED MAXIMUM 6" THICK UFTS BEFORE COMPACTION. EACH LITT SHALL BE WETTED IF REQUIRED AND COMPACTION TO NOT LESS THAN 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY FOR SOIL IN ACCORDANCE WITH ASTIM DISST. 봈
- NEWLY PLACED CONCRETE FOUNDATIONS SHALL CURE A MINIMUM OF 72 HRS PRIOR TO BACK FILLING.
- FINISHED GRADING SHALL BE SLOPED TO PROVIDE POSITIVE DRAINAGE AND PREVENT STANDING WATER, THE FINAL (FINISH) ELEVATION OF SLAB FOUNDATIONS SHALL BLOPE AWAY IN ALL DIRECTIONS FROM THE CENTER, FINISH GRADE OF CONCRETE PAOS SHALL BE A MAXIMUM OF 4 INCHES ABOVE FINISH, FINISH GRADE ELEVATIONS, PROVIDE SURFACE FILL GRAVEL TO ESTABLISH SPECIFIED ELEVATIONS WHERE REQUIRED.
- NEWLY GRADED SURFACE AREAS TO RECEIVE GRAVEL SHALL BE COVERED WITH GEOTEXTILE FABRIC TYPE. TYPAR-3401 AS MANUFACTURED BY "CONSTRUCTION MATERIAL 1-800-259-3841" OR AN APPROVED EQUIVALENT, SHOWN ON PLANS. THE GEOTEXTILE FABRIC SHALL BE BLACK IN COOLOR TO COMPROL THE RECURRENCE OF VEGETATIVE GROWTH AND EXTEND TO WITHIN 1 FOOT OUTSIDE THE SITE FENCING OR ELECTRICAL GROUNDING SYSTEM PERMISTER WHICH EVER IS GREATER, ALL FABRIC SHALL BE COVERED WITH A MINIMUM OF 4" DEEP COMPACTED STOVE OR GRAVEL AS SPECIFIED, I.E. COOT TYPE No. 57 FOR FENCED COMPOUND; ODOT TYPE No. 67 FOR ACCESS DRIVE AREA.
- IN ALL AREAS TO RECEIVE FILL REMOVE ALL VECETATION, TOPSOIL DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETEROUS MATERIALS FROM GROUND SURFACE, PLOW STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1 VERTICAL TO 4 HORIZONTAL SUCH THAT FILL MATERIAL WILL BIND WITH EXISTING/PREPARED SOIL SURFACE.
- WHEN SUB GRADE OR PREPARED GROUND SURFACE HAS A DENSITY LESS THAN THAT REQUIRED FOR THE FILL MATERIAL, SCARIFY THE GROUND SURFACE TO DEPTH REQUIRED, PULVERIZE, MOISTURE-CONDITION AND/OR AERATE THE SOILS AND RE—COMPACT TO THE REQUIRED DENSITY PRIOR TO PLACEMENT OF FILLS.
- 11. IN AREAS WHICH EXISTING GRAVEL SURFACING IS REMOVED OR DISTURBED DURING CONSTRUCTION OPERATIONS, REPLACE GRAVEL SURFACING TO MATCH ADJACENT GRAVEL SURFACING AND RESTORED TO THE SAME THICHRESS AND COMPACTION AS SPECIFIED, ALL RESTORED GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES.
- EXSTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REUSED WITH THE CONDITION THAT ANY UNFAVORABLE AMOUNTS OF ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOYED FROR TO REUSE, FURNISH ANY ADDITIONALL GRAVEL RESURFACING MATERIAL AS NEEDED TO PROVIDE A FULL DEPTH COMPACTED SURFACE THROUGHOUT SITE.
- 13. GRANEL SUB SURFACE SHALL BE PREPARED TO REQUIRED COMPACTION AND SUB GRANE ELEVATIONS BEFORE GRANEL SURFACING IS PLACED AND/OR RESTORED. ANY LOOSE OR DISTURBED MATERIALS SHALL BE THORROUGHLY COMPACTED AND ANY DEPRESSIONS IN THE SUB GRADE SHALL BE FILED AND COMPACTED WITH APPROVED SELECIED MATERIAL GRAVEL SURFACING MATERIAL SHALL NOT BE USED FOR FILLING DEPRESSIONS IN THE SUB GRADE.
- 14. PROTECT EXISTING GRAVEL SURFACING AND SUB GRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE.
- 15. DAMAGE TO EXISTING STRUCTURES AND/OR UTILITIES RESULTING FROM CONTRACTORS NEGLIGENCE SHALL BE REPAIRED AND/OR REPLACED TO THE OWNERS SATISFACTION AT NO ADDITIONAL COST TO THE CONTRACT.
- 16. ALL SUITABLE BORROW MATERIAL FOR BACK FIL. OF THE SITE SHALL BE INCLUDED IN THE BID. EXCESS TOPSOIL AND INSUITABLE MATERIAL SHALL BE DISPOSED OF OFF SITE AT LOCATIONS APPROVED BY GOVERNING AGENCIES AT NO ADDITIONAL COST TO THE CONTRACT.

ENVIRONMENTAL NOTES

- ALL WORK FERFORMED SHALL BE DONE IN ACCORDANCE WITH ISSUED FERMITS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF FINES AND PROPER CLEAN UP FOR AREAS IN VIOLATION.
- CONTRACTOR SHALL INSTALL/CONSTRUCT ALL NECESSARY SEDIMENT/SILT CONTROL FENCING AND PROTECTIVE MEASURES WITHIN THE LIMITS OF SITE DISTURBANCE PRIOR TO CONSTRUCTION. CONTRACTOR AND/OR DEVELOPER SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION FOR PROTECTION OF ADJACENT PROPERTIES, ROADWAYS AND WAITERWAYS AND SHALL BE MAINTAINED IN PLACE THROUGH FINAL JURISDICTIONAL INSPECTION & RELEASE OF SITE.
- NO SEDIMENT SHALL BE ALLONED TO EXIT THE PROPERTY. THE CONTRACTOR IS REPSONIBLE FOR TAKING ADEQUATE MEASURES FOR CONTROLLING EROSION, ADDITIONAL SEDIMENT CONTROL FENCING MAY BE REQUIRED IN ANY AREAS SUBJECT TO EROSION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND ANY REPAIRS OF ALL SEDIMENT CONTROL MEASURES INCLUDING SEDIMENT REMOVAL AS NECESSARY. THE CONTRACTOR IS RESPONSIBLE FOR MANITAINING POSITIVE DRAINAGE ON THE SITE AT ALL TIMES WITH SILT AND EROSON CONTROL MEASURES MAINTAINED ON THE DOWNSTREAM SIDE OF SITE DRAINAGE ANY DAMAGE TO ADJACENT PROPERTY AS A RESULT OF EROSION WILL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- CLEARING OF VEGETATION AND TREE REMOVAL SHALL BE ONLY AS PERMITTED AND BE HELD TO A MINIMUM. ONLY TREES NECESSARY FOR CONSTRUCTION OF THE FACILITIES SHALL BE REMOVED.
- SEEDING SAND MULCHING AND/OR SODDING OF THE SITE WILL BE ACCOMPLISHED AS SOON AS POSSIBLE AFTER COMPLETION OF THE PROJECT FACILITIES AFFECTING LAND DISTURBANCE.
- CONTRACTOR SHALL PROVIDE ALL EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL, COUNTY AND STATE CODES AND ORDINANCES TO PROTECT EMBANKAETIS FROM SOIL LOSS AND TO PREVENT ACCUMILATION OF SOIL AND SLIT IN STREAMS AND DRINIAGE PATHS LEAVING THE CONSTRUCTION AREA. THIS MAY INCLUDE SUCH MEASURES AS SILT FENCES, STRAW BALE SEDIMENT BARRIERS, AND CHECK DAMS.
- RIP RAP OF SIZES INDICATED SHALL CONSIST OF GLEAN, HARD, SOUND, DURABLE, UNIFORM IN QUALITY STONE FREE OF MAY DETRIBENA, QUANTITY OF SOST, FRABLE, THAN, ELONGATED OR LAMINATED PIECES, DISINTEGRATED MATERIAL, ORGANIC MATTER, OIL, ALVALI, OR OTHER DELETEROUS SUBSTANCES.

STRUCTURAL STEEL NOTES

- ALL STEEL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION. STEEL SECTIONS SHALL BE IN ACCORDANCE WITH ASTM AS INDICATED BELOW. W-SHAPE'S, ASTM, A982, 50 KSI
 ANGLES, BARS CHANNELS: ASTM A38, 36 KSI
 HSS SECTIONS: ASTM A53-E, 35 KSI
 PIPE SECTIONS: ASTM A53-E, 35 KSI
- ALL EXTERIOR EXPOSED STEEL AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.
- ALL WELDING SHALL BE PERFORMED USING FZOXX ELECTRODES AND WELDING SHALL CONFORM TO ASC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE IZX+ IN THE ASC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
- NON-STURGUTRAL CONNECTIONS FOR STEEL GRATING MAY USE $5/8^{\bullet}\phi$ astm a 307 bolts unless noted otherwise.
- FIELD MODIFICATIONS ARE TO BE COATED WITH ZINC ENRICHED PAINT.

CONCRETE MASONRY NOTES

- CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING (F'M=1,500 PS). MEDIUM WEIGHT (115 PCF). ಠ C90, GRADE N-1,
- MORTAR SHALL BE TYPE "S" (MINIMUM 1,800 PSI AT 28 DAYS).
- GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
- ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOULD GROUTED.
- ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
- WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.
- PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF $4^{\circ}-0^{\circ}$ OF HEIGHT.

- ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.

CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.

- 11. REINFORCING BARS SEE NOTES UNDER "STRUCTURAL CONCRETE NOTES" FOR REQUIREMENTS.

- 13. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET. Provide one bar diameter (a minimum of $1/2^{\circ}$) grout between main reinforcing and masonry units.
- HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104.6.1 OF U.B.C.
- all cells in concrete blocks shall be filled soud with grout, except as noted in the drawings or specifications.
- CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL
- REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTER AND JOINT TYPE.
- sand shall be clean, sharp and well graded, free from injurious amounts of dust, lumps shale, alkau or organic material BRICK SHALL CONFORM TO ASTM C-62 AND SHALL BE GRADE MW OR BETTER.

STRUCTURAL CONCRETE NOTES

- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-05, ACI 318-05 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH 16'=3,000 PSI AT 28 DAYS UNLESS NOTED OTHERWISE.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
- THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST EARTH......

...1 1/2 IN.

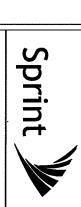
- A $3/4^\circ$ chamfer shall be provided at all exposed edges of concrete u.n.o. In accordance with aci 301 section 4.2.4
- HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWNIGS. LOCATE AND AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
- USE AND INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER ICBO & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

WE A THERPROOFING NOTES

WEATHERPROOFING CONNECTORS AND GROUND KITS: STANDARD CONSTRUCTION SPECIFICATIONS FOR WIREL ESS SITES

- A ALL CONNECTORS AND GROUND KITS SHALL BE WEATHERPROOFED USING BUTY, RUBBER WEATHERPROOFING AND TAPE. THIS INSTALLATION MUST BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION OR AS SHOWN ON THE CONSTRUCTION DRAWNINGS (WHICHEVER IS GREATER), IF ON DIRECTION IS PROVIDED, WEATHERPROOFING MUST BE DONE PER THE FOLLOWING INSTRUCTION.
- THE COAMAL CABLE CONNECTION OR GROUND KIT CAN BE ENCOMPASSED INTO COLD SHRINK AND COMPLETELY WRAPPED WITH 2 INCH WIDE ELECTRICAL TAPE OVERLAPING EACH ROW BY APROXIMATELY BY AND EXCHADING PAST THE CONNECTION BY TWO INCHES AS DISCUSSED BELOW, OR THE COAMAL CABLE CONNECTION OR GROUND KIT CAN BE WRAPPED WITH LAYERS OF ELECTRICAL/BUTTL RUBBER/ELECTRICAL TAPE AS DISCUSSED BELOW, OR THE COAMAL CABLE CONNECTION OR GROUND KIT CAN BE WRAPPED WITH TWO LAYERS OF 1.5 INCH WIDE SELDE CONNECTION OR GROUND KIT CAN BE WRAPPED WITH TWO LAYERS OF 1.5 INCH WIDE SELDEL CONNECTION OR GROUND KIT CAN BE WRAPPED WITH TWO LAYERS OF 1.5 INCH WIDE SELDEL CONNECTION OR GROUND KIT CAN BE WRAPPED WITH TWO LAYERS OF 1.5 INCH WIDE SELDE CONNECTION OR GROUND KIT CAN BE WRAPPED WITH TWO LAYERS OF ELECTRICAL TAPE AS DISCUSSED BELOW, OR

- B. COLD SHRINK INSTALLATION PROCEDURE:
- REQUIRED MATERIAL: COLD SHRINK TUBE, SPACERS AS NEEDED, BLACK ELECTRICAL TAPE—2 INCHES WIDE
- REQUIRED TOOLS: KNIFE AND TAPE MEASURE STEP 1: THOROUGHLY CLEAN AND DRY THE S
- STEP 2: SLIDE THE COLD SHRINK TUBE OVER THE PRE—CONNECTORIZEDIAMETER COAXIAL CABLE PRIOR TO MATING CONNECTOR INTERFACES. STEP 1: THOROUGHLY CLEAN AND DRY THE SURFACE OF COAXIAL CAE ALL GREASE AND DIRT. MARK THE MAIN FEED (LARGER DIAMETER) CO. INCHES ABOVE THE CONNECTION AS THE SPECIFIED START DIMENSION ED END OF THE LARGER . MAKE THE CONNECTION. ILE AND CONNECTOR TO REMOVE AXIAL CABLE AT LEAST TWO FOR THE COLD SHRINK.
- SITE 3: REMOVE WAX PAPER FROM A SPACER HALF AND PRESS ON BEHIND THE COMMICTOR, REMOVE THE WAX PAPER FROM THE OTHER. THO SPACER HALA'SS WITH ADHESINE PORTIONS FACING EACH OTHER. TOESTHER, THE SPACER WILL BE PLACED NEXT TO THE CONNECTOR OCNAMAL CABLE SIDE. TO COAXIAL CABLE DIRECTLY
 SPACER HALF AND ALIGN THE
 PRESS THE SPACER HALVES
 ON THE SMALLER DIAMETER
- STEP 4: SUDE THE COLD SHRIKK TUBE OVER THE CONNECTION TO THE SPECIFIED START DIMENSION MARK, HOLD THE COLD SHRINK TUBE AND COAMAL CABLE IN ONE HAND SO THAT THE EDGE OF COLD SHRINK TUBE IS IN LINE WITH THE MARK.
- SIEP 5: WTH YOUR FREE HAND, BEGIN REMOVING COLD SHRINK TUBE CORE. THE CORE WILL BE REMOVED BY UNMINDING IN A COUNTERCLOCKIMSE DIRECTION WHILE LIGHTLY PULLING THE ATTACHED CORD AWAY FROM THE TUBE.
- STEP 8: WAAP OVER THE COLD SHRINK TUBE WITH ONE LAYER OF BLACK ELECTRICAL TAPE 2 INCH WIDTH OVERLAPPING EACH ROW BY 1/2 INCH. THIS TOP LAYER MISTI BE WAAPPED USING A SHINGLED EFFECT. THE LAYER SHALL BE WRAPPED SO THAT THE ENDS ARE IN THE UPWARD DIRECTION OREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REPELLED AND NOT ALLOWED TO COLLECT AND POOL. THIS TOP LAYER OF ELECTRICAL TAPE MIST EXTEND TWO INCHES (THE TAPE WIDTH) PAST THE COLD SHRINK TUBE ONTO THE UNDERLYING CABLE. TAPE SHALL BE WRAPPED SO THAT NO VOIDS OR AIR PACKETS ARE PRESENT. TAPE SHALL BE CUIT WITH A SHARP KNIFE. STEP 7: EXCESS COLD SHRINK TUBE EXTENDING TWO INCHES BEYOND THE SPACER HALVES CAN BE REMOVED OR LEFT IN PLACE. EXCESS COLD SHRINK TUBE CAN BE CAREFULLY CUT OFF WITH A KNIFE. SIFE 8. USE BOTH HANDS TO CONTINUE THE UNIMIDING PROCESS AS THE COLD SHRINK TUBE BEGINS TO COLLAPSE INTO POSITION. CONTINUE THE UNIMIDING PROCESS UNTIL THE CORE IS COMPLETELY REMOVED AND THE COLD SHRINK TUBE IS INSTALLED.
- 1. REQUIRED MATERIAL: BLACK ELECTRICAL TAPE-2 INCH WIDE AND BUTYL RUBBER TAPE 2 TO 3 INCHES WIDE. BUTYL RUBBER TAPE INSTALLATION PROCEDURE:
- REQUIRED TOOLS: KNIFE OR SCISSORS.
- STEP 1: THOROUGHLY CLEAN AND DRY THE SURFACE OF COAXIAL CABLE AND CONNECTOR TO REMOVE ALL GREASE AND DRT, WAAP CONNECTOR/CAROUND KIT WITH TWO LAYERS OF BLACK ELECTRICAL TAPE-Z INCH, WIDTH OVERLAPPING EACH ROW BY APPROXIMATELY 1/2 INCH. THESE LAYERS OF TAPE MUST BE WRAPPED TIGHT ENOUGH SO THAT NO VOIDS OR AIR PLACETS ARE PRESENT AND MUST EXTEND ONE INCH PAST THE CONNECTOR/CAROUND ITO ON EACH SIDE TWO ROWS SHALL BE APPLIED, ONE IN EACH DIRECTION, WITH THE TOP ROW SHINGLED TO PROMOTE WATER RUNOFF.
- STEP 2: WRAP CONNECTOR/GROUND KIT WITH ONE LAYER OF BUTYL R WIDTH) OVER THE BLACK ELECTRICAL TAPE OVERLAPPING EACH ROW B BUTYL RUBBER TAPE MUST EXTEND 2 TO 3 INCHES (THE TAPE MUST) AND COME IN GOOD CONTACT WITH THE UNDERLYING CABLE. ON CONNEXATERPROCPING FROM THE MAIN LINE TO THE JUMPER, BUILD UP THUBBER TAPE TO INSURE A SMOOTH TRANSITION FREE OF VOIDS AND SMALLER DIAMETER CABLE. 1. RUBBER TAPE (2 TO 3 INCHES W BY APPROXIMATELY 1/2 INCH. THE (TH) PAST THE ELECTRICAL TAPE (ONLECTORS, WHEN EVIRA BUT'L P THIS AREA WITH EVIRA BUT'L ND AIR PACKETS DOWN TO THE
- SIEP 3: WAAP CONNECTOR/GROUND KIT WITH TWO LAYERS OF BLACK OVERLAPPING EACH ROW BY 1 NOY. THESE LAST TWO LAYERS WUST E EFFECT, THE TOP LAYER SHALL BE WRAPPED SO THAT THE ENDS ARE CREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REP COLLECT AND POOL. THESE TOP LAYERS OF ELECTRICAL TAPE MUST E WIDTH) PAST THE BUTYL RUBBER TAPE ONTO THE UNDERLYING CABLE. CK ELECTRICAL TAPE 2 NICH WIDTH
 THE WAAPPED USING A SHINGLED
 THE LIPWARD DIRECTION
 REPELLED AND NOT ALLOWED TO
 TEXTEND TWO NICHES (THE TAPE
 THE TAP
- ALL LAYERS OF TAPE SHALL BE WRAPPED SO THAT NO VOIDS OR AIR PACKETS ARE PRESENT. THE LAST WRAP OF TAPE SHALL NOT BE PULLED OR STRETCHED. ALL TAPE SHALL BE CUT WITH A SHARP KNIFE OR SCISSORS.
- SELF-AMALGAMATING TAPE INSTALLATION PROCEDURE:
- REQUIRED MATERIAL: SELF-AMALGAMATING TAPE -1.5 INCHES WIDE INCHES WIDE. ND BLACK ELECTRICAL TAPE - 2
- STEP 3: WHILE STRETCHING TAPE, MAKE ONE WRAP OF THE TAPE AROUND THE CABLE, MAKING SURE THE TAPE IS WRAPPED ONTO ITSELF. THE TAPE WILL ONLY ADHERE TO ITSELF. STEP 2: START WRAPPING SELF—AMALGAMATING TAPE ON THE CABLE CONNECTOR/GROUND KIT. MAKE SURE TAPE IS STRETCHED TIGHT DURI required tools: Knife or Scissors. Step 1: Thoroughly Clean and Dry The Surface of Coaxial Cable and Connector to Remove All Grease and Dirt. AT LEAST 2 INCHES FROM THE ING THIS APPLICATION.
- STEP 4: CONTINUE WRAPPING THE CABLE AND CONNECTOR/GROUND INCH WIDE) LAYERS. STEP 5: WRAP OVER AND PAST THE CONNECTOR/GROUND KIT AT LEAST 2 INCHES.
- STEP 7: TWO ROWS OF SELF-AMALGAMATING TAPE SHALL BE APPLIED DIRECTIONS. THE TOP LAYER SHALL BE WRAPPED SO THAT THE ENDS CREATING A SHINGLED EFFECT WITH THE TAPE SO WATER WILL BE REF SIED 6: 10 ITEMMANE THE SELF—AMALGAMATING TAPE, WAAP THE TAPE AT LEAST ONE FULL ROUND ONER THE CABLE STRETCHING THE TAPE INGER (AND APPLY THE LOOSE END TO THE UNDERLYNO SELF—AMALGAMATING TAPE USING THUMB PRESSURE. D IN THIS MANNER, IN ALTERNATING ARE IN AN UPWARD DIRECTION PELLED.
- STEP 8: WAP OVER SELF-MANGMANING TAPE WITH TWO LAYERS OF BLACK ELECTRICAL TAPES. 2 NICH WIDTH OVERLAPPING EACH ROW BY I NICH, THESE TOP TWO LAYERS MIST LASD BE WARPED LUSHIG A SHINGLED EFFECT, THE LAYERS SHALL BE WARPED SO THAT THE BUSS ARE IN THE IMPARD DIRECTION CREATING A SHINGLED FFECT WITH THE TAPES OF BLECTRICAL TAPE MUST EXTERD I TWO INCHES (THE TAPE WIDTH) PAST THE SELF—MANLDMANTHS TAPE ONTO THE INDERTING LAYER AND TAPES OF TAPE SHALL BE WARPED SO THAT NO VOIDS OR AIR PACKETIS ARE PRESENT. THE LAST WAP OF TAPE SHALL BY WARPED SO THAT HOW VOIDS OR AIR PACKETIS ARE PRESENT. THE LAST WAP OF TAPE SHALL NOT BE PULLED OR STRETCHED. ALL TAPE SHALL BE CUIT WITH A SHARP KNIFE OR SCISSORS.



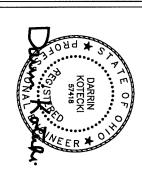


WIRELESS SERVICES



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ROJECT INFORMATION: DUBLIN SOUTH AEP CB03XC025

5777 SHIER RINGS ROAD COLUMBUS, OHIO 43002 FRANKLIN COUNTY

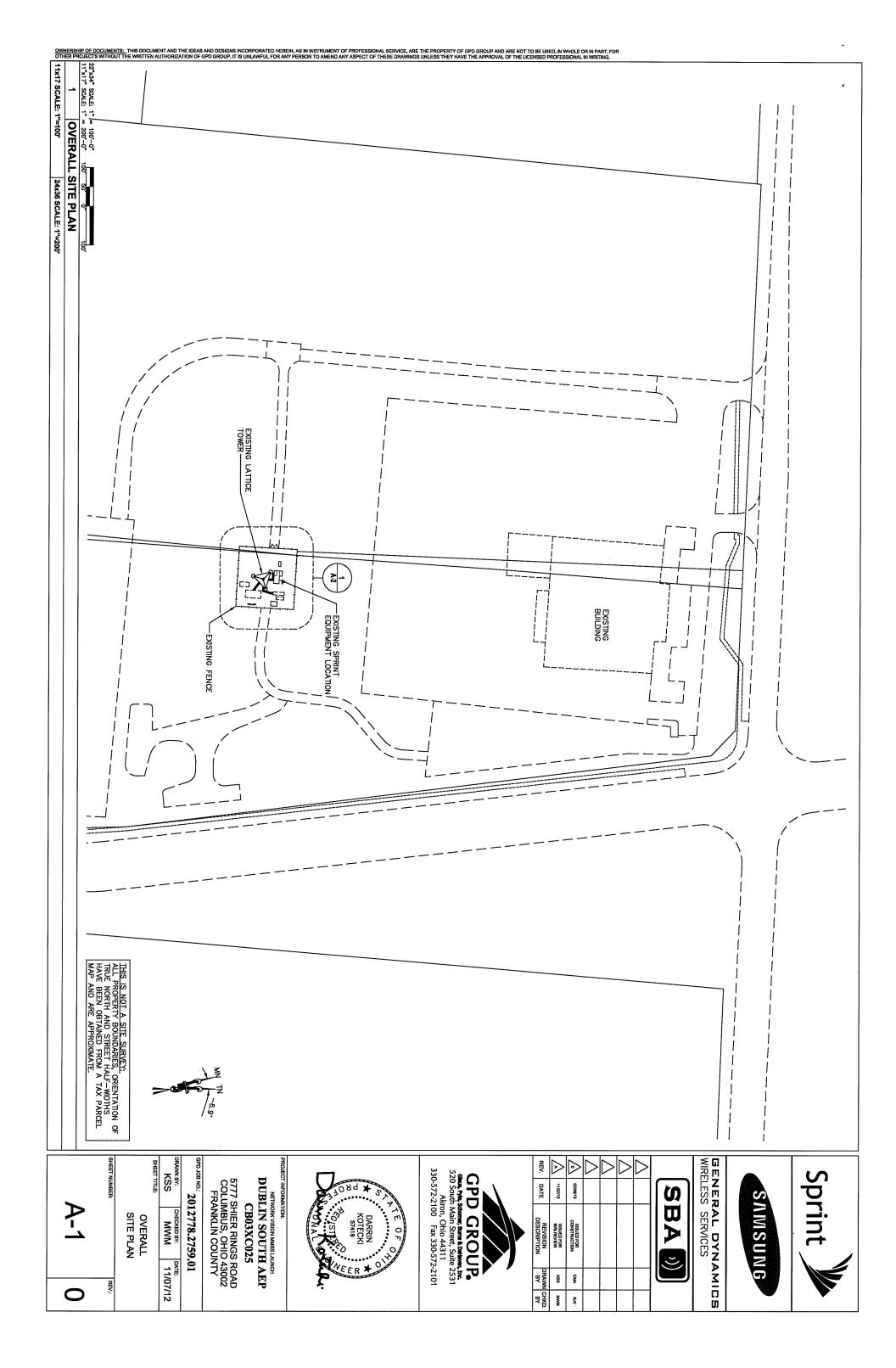
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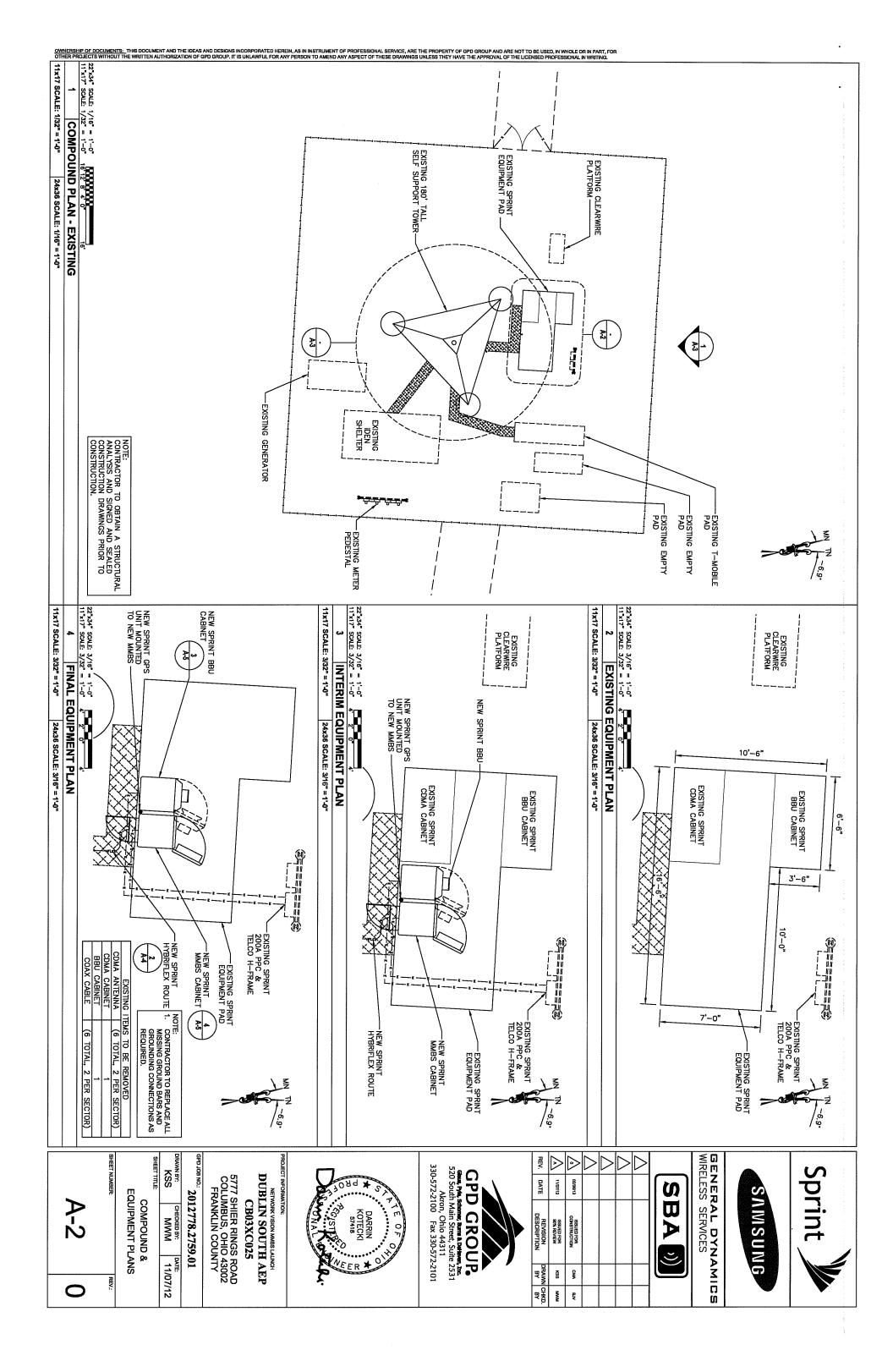
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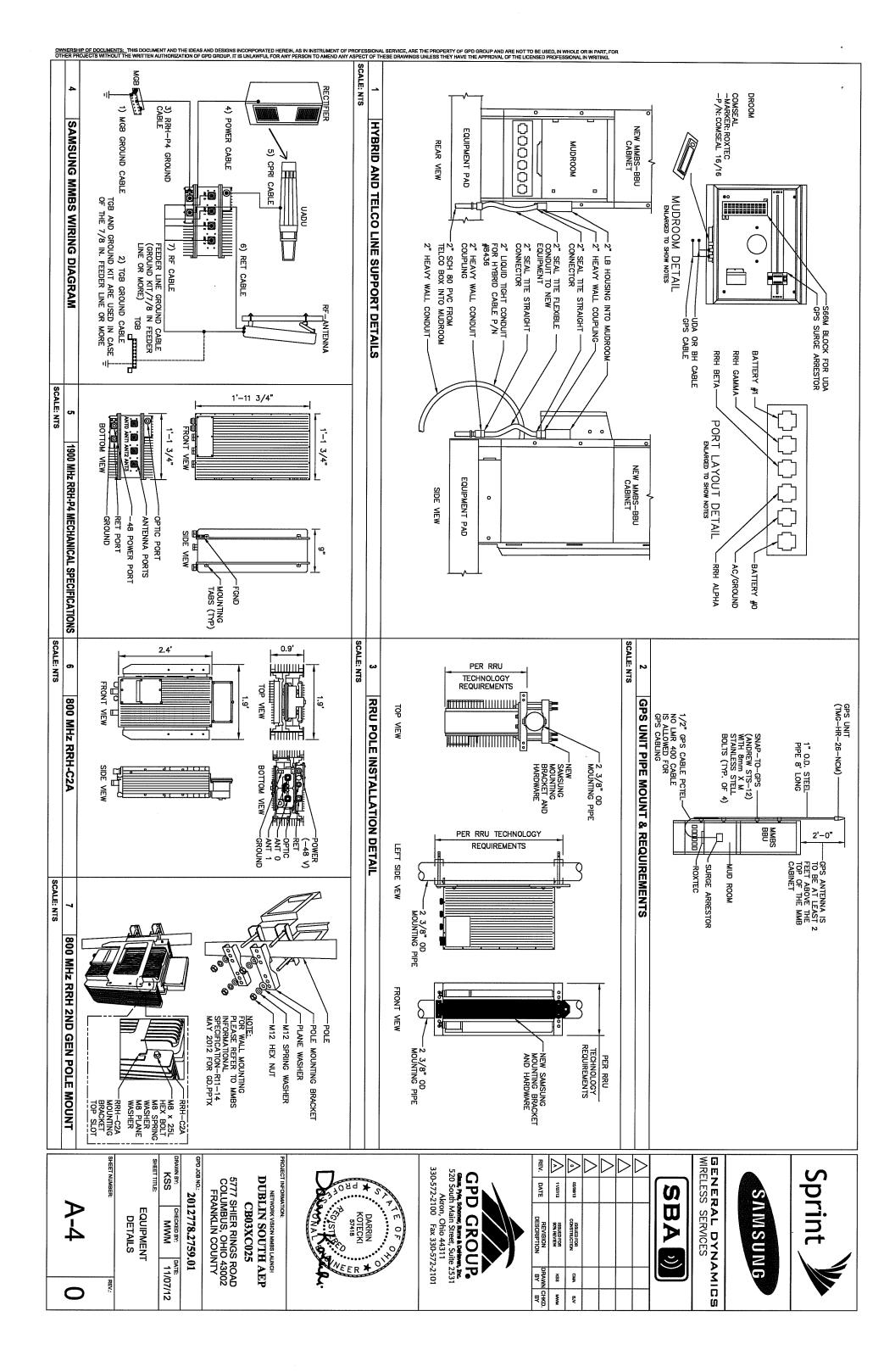
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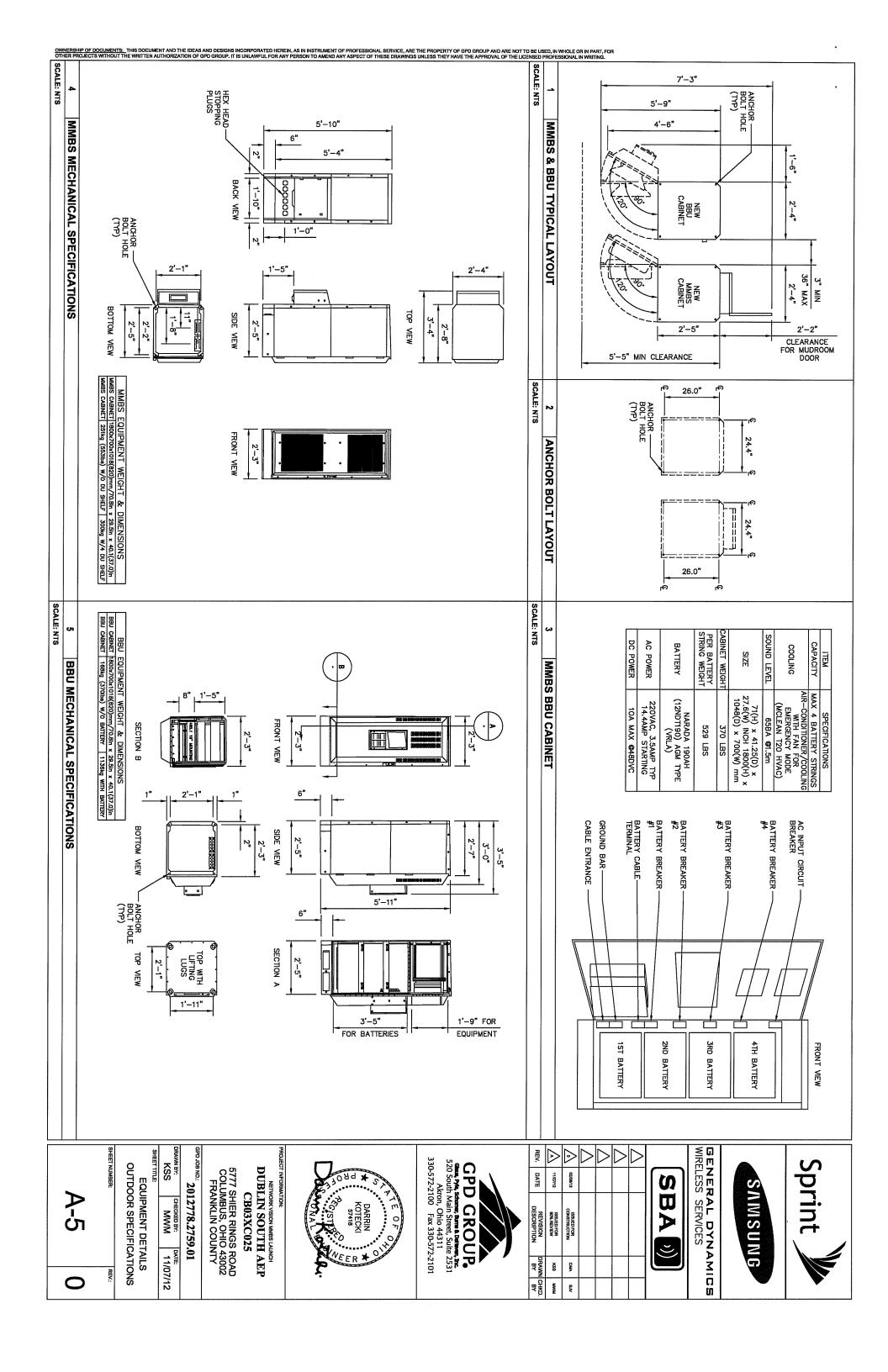
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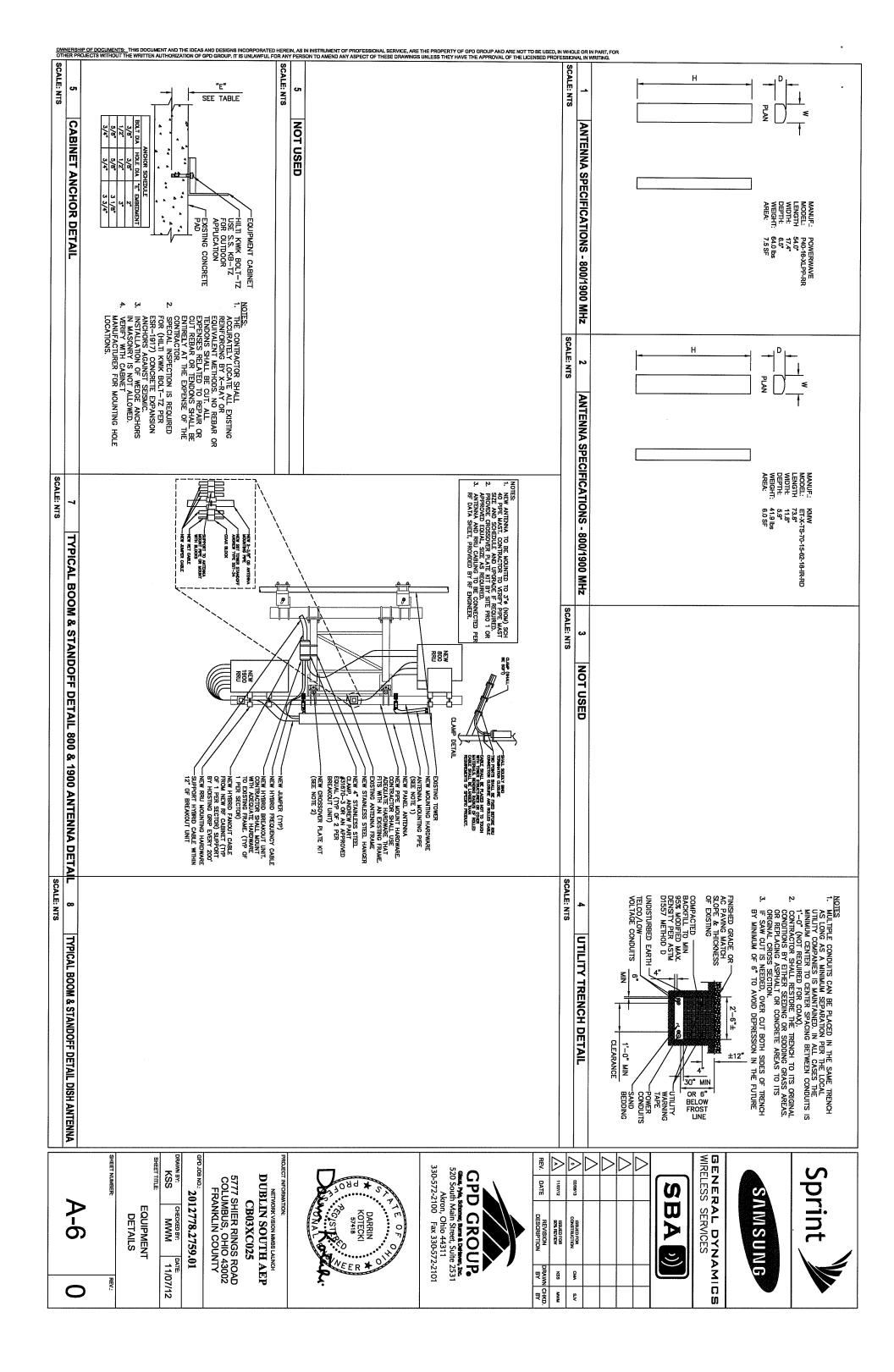
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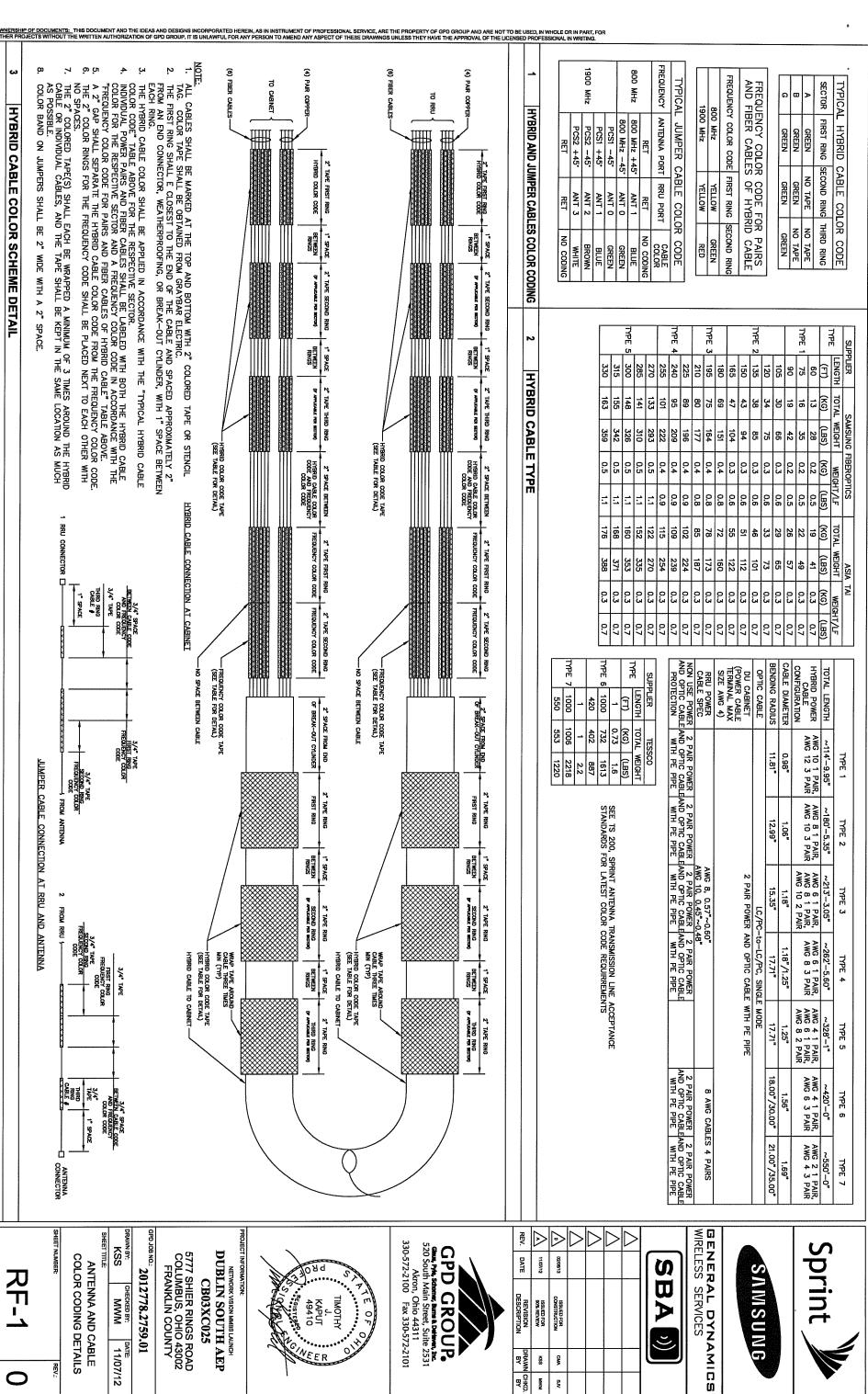












GPD GROUP.

DATE 11/07/12

REVISION DESCRIPTION ISSUED FOR

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DUBLIN SOUTH AEP
CB03XC025 5777 SHIER RINGS ROAD COLUMBUS, OHIO 43002 FRANKLIN COUNTY

2012778.2759.01

KSS KSS MWM 11/07/12

COLOR CODING DETAILS ANTENNA AND CABLE

RF-1

- 1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT NATIONAL ELECTRICAL CODES AND ALL LOCAL AND STATE CODE, LAWS, AND CORDINANCES, PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC STANDARDS.
- CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY FOR REQUIREMENTS OF POWER SERVICE LINE TO THE METER BASE, WHEN REQUIRED. POWER SERVICE REQUIREMENT IS COMMERCIAL AC NOMINAL 120/208 VOLT OR 120/240 VOLT, SINGLE PHASE WITH 200 AMP RATING.
- CONTRACTOR SHALL FURNISH AND INSTALL ELECTRIC METER BASE AND 200A DISCONNECT SWITCH PER SITE PLAN DETAIL DRAWNGS AND PER LOCAL UTILITY COMPANIES SPECIFICATION, WHEN REQUIRED. THE METER BASE SHOULD BE LOCATED IN A MANNER WHERE ACCESSIBLE BY THE LOCAL POWER COMPANY. CONTRACTOR SHALL COORDINATE WITH LOCAL TELEPHONE COMPANY FOR SERVICE LINE REQUIREMENTS TO TERMINATE AT THE PPC CABINET.
- LOCAL POWER COMPANY SHALL PROVIDE 200 AMP ELECTRIC METER, CONTRACTOR SHALL COORDINATE INSTALLATION OF METER WITH LOCAL POWER COMPANY.
- 6. UNDERGROUND POWER AND TELCO SERVICE LINES SHALL BE ROUTED IN A COMMON TRENCH, ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 AND CONDUIT EXPOSED ABOVE GROUND SHALL BE GALVANIZED RIGID STEEL TUBING UNLESS OTHERWISE INDICATED.
- 8. CONDUITS INSTALLED AT PCS EQUIPMENT ENDS PRIOR TO THE EQUIPMENT INSTALLATION SHALL BE STUBBED AND CAPPED AT 6" ABOVE GRADE OR PLATFORM. IF SERVICE LINES CAN'T BE INSTALLED INITIALLY, PROVIDE NYLON PULL CORD IN CONDUITS. ALL TELCO CONDUIT LINES SHALL BE 4" SCH. 40 PVC CONDUIT UNLESS OTHERWISE INDICATED. THE TELCO CONDUIT FROM THE PPC SHALL BE ROUTED AND TERMINATED AT DESIGNATIO TELCO DEMARCATION OR 2-FEET OUTSIDE FENCED AREA, NEAR UTILITY POLE (IN FENCED AREA), OR END CAP OFF AND PROVIDE MARKER STAKE PAINTED BRIGHT ORANGE WITH DESIGNATION FOR TELCO SERVICE.
- THE SPRINT CABINET, INCLUDING 200 AMP LOAD PANEL AND TELCO PANEL, SHALL BE PROVIDED BY OWNER AND INSTALLED BY THE CONTRACTOR. CONTRACTOR IS TO INSTALL BREAKER(S) NOT PROVIDED BY MANUFACTURER. SEE PANEL SCHEDULE ON THIS SHEET FOR BREAKER REQUIREMENTS.
- 10. LOCATION OF ELECTRIC METER AND DISCONNECT SWITCH TO BE PROVIDED BY GENERAL CONTRACTOR.
- 11. #2 WIRE TO BE UTILIZED IN ELECTRIC SERVICE RUNS EXCEEDING 100'.
- 12. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTORS FUNCTIONS. THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- 13. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWNOS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH—IN.
- . The conduit runs as shown on the plans are approximate, exact location and routing shall be per existing field conditions.
- **ELECTRICAL NOTES**

- 16. ALL CONDU TABLE 346: ELBOWS WI 15. PROVIDE

- 20. ALL NEW MATERIAL SHALL HAVE A U.L. LABEL.

21.

- 24. THE CONTRACTOR SHALL PREPARE AS-BUILT DRAWNGS, DOCUMENT ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. SUBMIT AT SUBSTANTIAL COMPLETION.
- ALL DISCONNECT SWITCHES AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED PHENOLIC NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM (NO EXCEPTIONS,) PROVIDE SAMPLE FOR CONSTRUCTION MANAGER'S APPROVAL

25.

- ALL ELECTRICAL DEVICES AND INSTALLATIONS OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE APPLICABLE STATE.
- PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH BUILDING, DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT CONSTRUCTION MANAGERS APPROVAL, SLEVENS ANO/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATERS, SMOKE, FIRE AND FUMES, ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.
- LOCATION OF ALL OUTLET, BOXES, ETC., AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

BE ME	JUNCTIO	N BOXE	S WHER	E SHOV	N OR	REQUIR D CONC	ARGE ED BY	NEC.	
BOXES	BOXES AND . SHALL BE ME I, NO RIGHT AI	BOXES AND JUNCTIO SHALL BE MET WITH I, NO RIGHT ANGLE DI AMINIMUM INSIDE S	BOXES AND JUNCTION BOXE SHALL BE MET WITH BENDS I. NO RIGHT ANGLE DEVICE O INNIMUM INSIDE SWEEPS	BOXES AND JUNCTION BOXES WHEF SHALL BE MET WITH BENDS MADE I. NO RIGHT ANGLE DEVICE OTHER TO THE TOTAL OF THE TOTAL OF THE TOTAL OF THE TOTAL BOXES FOR ALL DEVICES FOR ALL DE	BOXES AND JUNCTION BOXES WHERE SHOY SHALL BE MET WITH BENDS MADE IN ACCO. I. NO RIGHT ANGLE DEVICE OTHER THAN ST. 12" MINIMUM INSIDE SWEEDS FOR ALL COND.	BOXES AND JUNCTION BOXES WHERE SHOWN OR SHALL BE MET WITH BENDS MADE IN ACCORDANC IN NO RIGHT ANGLE DEWICE OTHER THAN STANDAR 12" MINIMUM NISDE SWEEPS FOR ALL CONDUITS 2 12"	BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIR SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH, NO RIGHT ANGLE DEVICE OTHER THAN STANDLAGD CONV. 12" MINIMUM MISDE SWEEPS FOR ALL CONDUITS. "OR L	BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC , NO RIGHT ANGLE DENCE OTHER THAN STANDARD CONDUITS 7. OR LARGET 12" MINIMUM NISDE SWEEPS FOR ALL CONDUITS 7. OR LARGET	PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC. DUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC 48-10, NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
	AND .	BE MET WITH SIGHT ANGLE DI	AND JUNCTION BOXE BE MET WITH BENDS IGHT ANGLE DEVICE O	AND JUNCTION BOXES WHER BE MET WITH BENDS MADE IGHT ANGLE DEVICE OTHER THE MINUM INSIDE SWEEPS FOR ALL	AND JUNCTION BOXES WHERE SHOW BE MET WITH BENDS MADE IN ACCOUNTY SHOWN INSIDE SWEEPS FOR ALL CONDITION WIND INSIDE SWEEPS FOR ALL CONDITION OF THE STATEMENT OF THE STATEMEN	AND JUNCTION BOXES WHERE SHOWN OR BE MET WITH BENDS MADE IN ACCORDANC IGHT ANGLE DEVICE OTHER THAN STANDAR INVIM INSIDE SWEEPS FOR ALL CONDUITS 2	AND JUNCTION BOXES WHERE SHOWN OR REQUIR BE MET MITH BENDS MADE IN ACCORDANCE MITH SHE MAGLE DEVICE OTHER THAM STANDARD CONT MINUM NISDIE SWEEDS FOR ALL CONDUITS 2" OR I	AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC 18CHT ANGLE DEFICE OTHER THAN STANDARD CONDUIT MINUM INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGE	AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC. BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC 1961T ANGLE DEVICE OTHER THAN STANDARD CONDUIT NEW MALL CONDUITS 2" OR LARGER.

- 17. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUNDING BUSHINGS.
- 18. ALL WIRE SHALL BE "TYPE THWN, SOLID. ANNEALED COPPER UP TO SIZE 1/10 AWG (18 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREE C, (167 DEGREES F), 98" CONDUCTIVITY. MINIMUM #12.
- ALL WREES SHALL BE TAGGED AT ALL PULL BOXES,

 —BOXES, EQUIPMENT BOXES
 AND CABINETIS WITH APPROVED PLASTIC TAGS, ACTION CRAFT, BRADY, OR
 APPROVED EQUAL.
- COMDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT TO AVOID LOCATION TO CONFLICTS. VERIFY WITH MECHANICAL CONTRACTOR AND COMPLY AS REQUIRED.

22

- 23. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN NOT HAND WRITTEN.

- ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERRIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS).

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		11		7	CI	u	-	육	PANEL STATUS:	ENCLOSE	MOUNT:	MAIN BREAKER:	VOLTAGE:	SITE NUMBER:
		FAN	ЦСНТ	1	NEW BBU CABINET	1	NEW MIMBS CABINET	DESCRIPTION						
		10	22		15		100	BREAKER AMPS	EXISTING	NEW 28	SURFACE	200 AMP	240V/120c	CB03XC025
		-	_		2		2	BREAKER POLES						
		ON.	£	S	Q.	£	ON	BREAKER STATUS						
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PANEL SCHEDULE

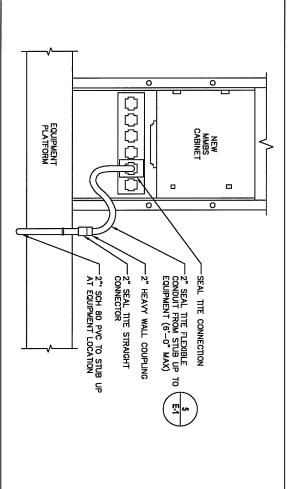
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EXISTING BREAKERS TO REMAIN.
 REMOVE BREAKERS AND REPLACE WITH NEW



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EQUIPMENT	72" SEAL TITE 90" PART # 500007 OF

SEAL TITE CONDUIT CONNECTION	Z* SEAL THE FLEXIBLE	EQUIPMENT	PART # 500007 OR EQUIVALENT NEW
	AL TITE FLEXIBLE	EQUIPMENT	AL TITE 90" CONDUIT CONNECTOR # 500007 OR EQUIVALENT NEW

TRANSFER & LOAD CENTER SUB-PANEL TRANSFER SWITCH & LOAD CENTER METER/DSC

PROPOSED MMBS
CABINET
PROPOSED BBU
CABINET

(3) #2 AWG, (1) #8 GND IN 2" CONDUIT (3) #10 AWG, (1) #10 GND IN 1" CONDUIT

EXISTING EXISTING SOURCE

METER CENTER

CONFIGURATION EXISTING

EXISTING
LOADS
(REFER TO
PANEL
SCHEDULE

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CIRCUIT SCHEDULE

EXISTING SERVICE GROUND

TO EXISTING-UTILITY POWER SOURCE

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TRANSFER SWITCH & LOAD CENTER

PROPOSED MMBS CABINET

PROPOSED BBU CABINET

SCALE: NTS

EXISTING 200A
GENERATOR RECEPTACLE

EXISTING 200A METER/DISCONNECT SWITCH

TRANSFER SWITCH & LOAD CENTER

ELECTRICAL ONE-LINE DIAGRAM

SCALE: NTS

PROJECT (NFORMATION:	Michigan	KAPUT HE A9410 HE	TIMOTHY	TE OF

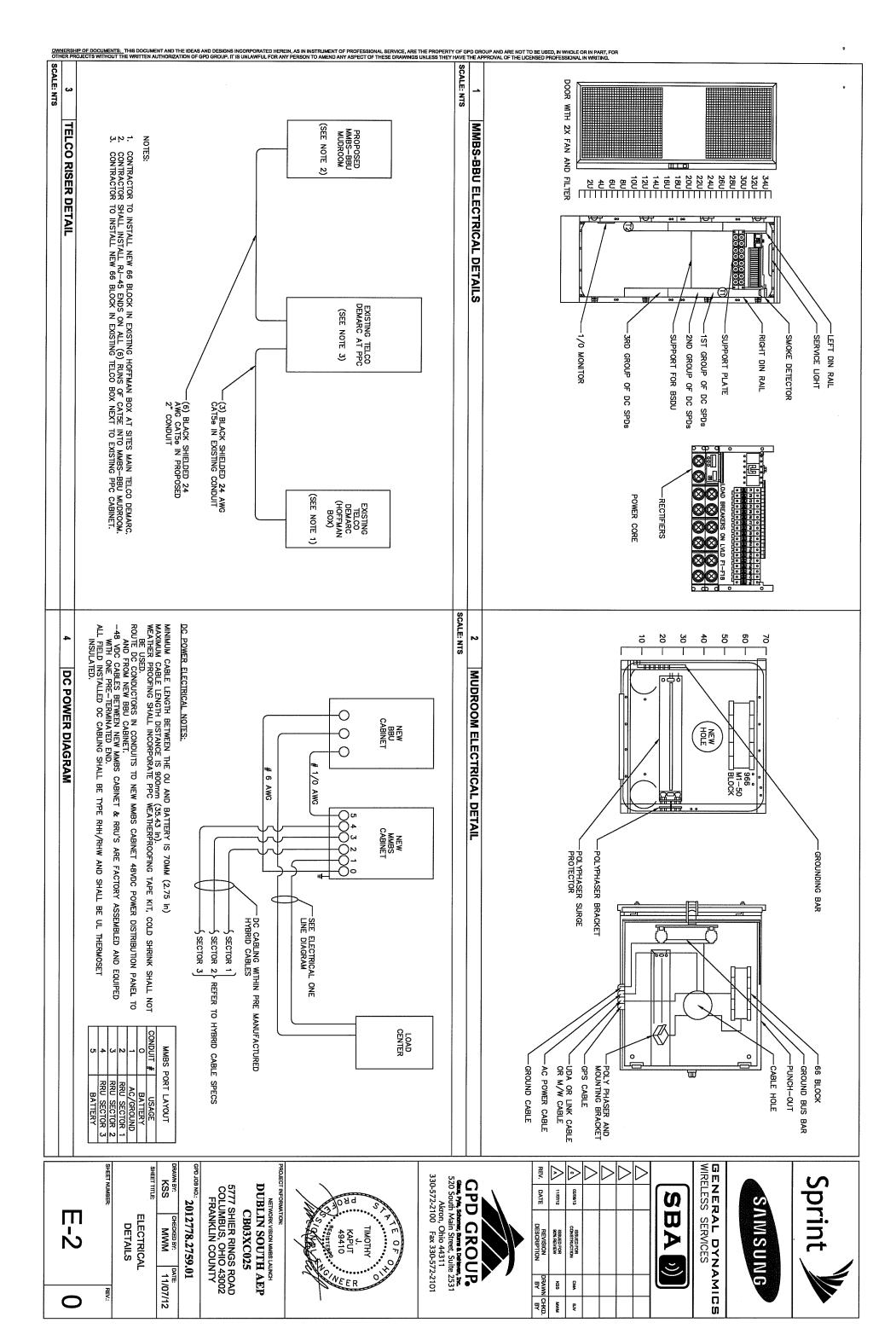
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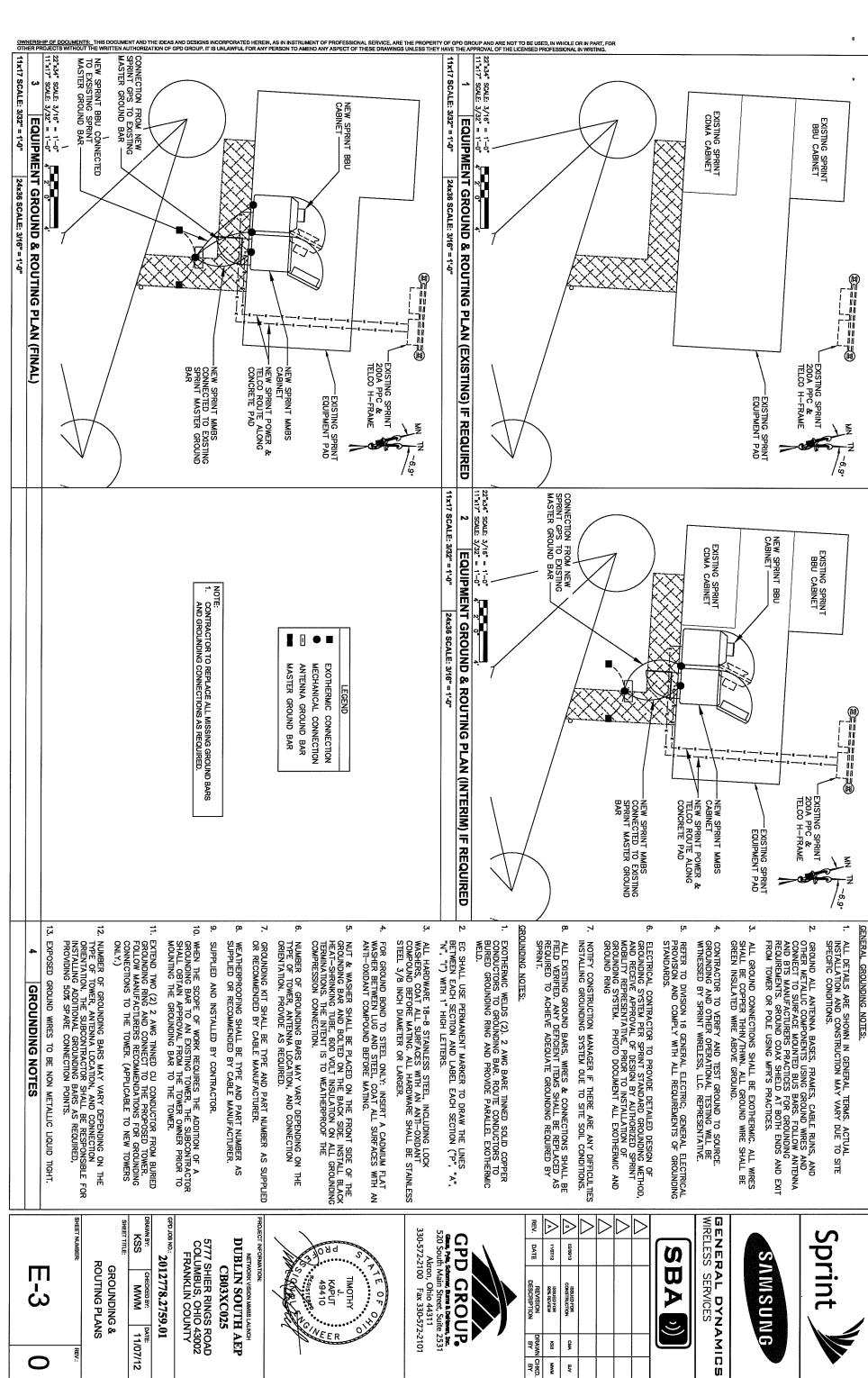
GPD GROUP.
Gaus, PM, Schorner, Burns & Delibrer, Inc.
520 South Main Street, Suite 2531

GPD JOB NO.: 2012778.2759.01 5777 SHIER RINGS ROAD COLUMBUS, OHIO 43002 FRANKLIN COUNTY

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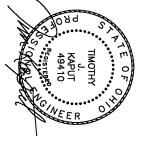
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NETWORK VISION MMBS LAUNCH
DUBLIN SOUTH AEP CB03XC025

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ROUTING PLANS

